

<p>Tsitsin, N. V. EFFECTIVE INCREASE IN THE PRODUCTIVITY OF GRAIN CROPS (Za Vsemernyy Pod'yem Urozhainosti Zernovykh Kul'tur). 25 Oct 60, 23p. (6 figs. Eng. summary omitted). Trans. A-1198. Order from LC or SLA m\$2.70, ph\$4.80 61-13776</p> <p>Trans. of Akademiya Nauk SSSR, Izvestiya--Seriya Biologicheskaya, 1960 [v. 25] no. 3, p. 326-337.</p> <p>9073-308 147,097</p> <p>(Agriculture--Plant Cultivation, TT, v. 5, no. 5)</p>	<p>61-13776</p> <p>1. Cereals--Development 2. Agriculture--USSR I. Tsitsin, N. V. II. Trans-A-1198</p> <p>Office of Technical Services</p>
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Modern Problems of Radiobiology, by A. M. Kuzin.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol, No 3, 1960,
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Problem of Mitotic and Amitotic Cell Division in
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pp 452-459. 9075216

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Dec 1960

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Conference on Experimental Production of Useful
Variants of Microorganisms, by Yu. N. Karasevich.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol, No 3, 1960,
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Organizational Conference of the All-Union
Microbiological Society, by V. A. Lambina.

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(NY-5196)

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and in Radiation Sickness, by G. A. Kritskiy,
27 pp.

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JPRS 7267

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OTS TT 65-5005C

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Muscle Tonus Under Conditions of Weightlessness, by E. M. Yukanov, I.I. Kas'yan, et al., 8 pp.

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NASA TT F-R131

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ML Ref 3431.9 P-3 (13)

Automatic Estimation of Fish Migration
According to Size Groups, by V. P. Protasov,
Yu. A. Mitrakhin, 6 pp.
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Cerebral Pulsation in the Closed Cranial Cavity,
by Yu. Ye. Moskalenko, 17 pp.

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NASA TT F-158

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Postural Reflexes in Intact Animals Under Conditions of Weightlessness, by V. I. Yazdovskiy, E. M. Yukanov, et al, 7 pp.

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Chinese Botanical Gardens, by M. V. Kul'tiasov,
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JPRS 7345

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A New Genus of Actinomycetales -- Promicromonospora
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Actinosporangium - A New Genus of the
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*CFSTI TT 70-57132

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JPRS 9612

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Scientific Conference on Heterosis, by Kh. F. Kushner.
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Physiology of Alkaloids, by V. S. Sokolov,
G. S. Il'in, 24 pp.

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JPRS 9802

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Modern Plant Physiology and the Prospects of Its
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THE RELATIONSHIP OF RESPIRATION TO PHOTOSYNTHESIS IN PLANT LEAVES. [1962] [15]p.
12 refs.
Order from OTS or SLA \$1.60

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Biologicheskaya, 1961 [v. 20, no. 2] p. 202-212.

DESCRIPTORS: *Respiration, *Photosynthesis,
*Plants (Botany), Light, Carbon dioxide, Labeled
substances.

Gas exchange in the assimilatory cells of plants
during photosynthesis and respiration in light
and in dark was studied. Determinations were made
of: (1) the evolution of C¹⁴O₂ in respiration from
the loss of radioactivity, measured directly in the
(Biological Sciences--Botany, TT, v. 10, no. 7)

63-15925

I. Title: Leaves
I. Zalenski, O. V.
II. Translations, New York

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Placenta and Seed Culture Under Sterile
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of the Forming Fruits, by V. E. Pontovich.

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1961, pp 233-238. 9096815

USDA Tr R-1320

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Sciences of USSR in Leningrad, 7 pp.

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Some Facts and Conclusions of Comparative
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On the Reactions of the Organism to the Action
of Small Doses of Ionizing Radiation, by M. G.
Durmish'yan, 77 pp.

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Modern Concepts of the Nature and
Mechanism of Action of Enzymes, by
V. L. Kretovich, 26 pp.

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Ultrasonic Waves and Certain Problems of
Modern Biology, by I. Ye. El'piner, 39 pp.

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The Activity of Microbiological Institutes in
Bulgaria, by Ye. N. Mishustin, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biolog,
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JPRS 8878

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The Excitation of Living Cells as a Shift of the
Steady State of Open Systems, by A. G. Pasynskiy,
G. D. Dechev, 10 pp.

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Macromolecular Structure of Native Ribonucleic Acid
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JPRS 11094

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ROLE OF CARBON DIOXIDE IN THE PHYSIOLOGY OF
MOLDS, BY S. A. BARIKOVA, 15 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, SERIYA BIOL,
NO 4, JUL/AUG 1961, PP 561-573.

JPRS 14903

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<p>Timofeeva, A. G., Gusakova, E. G., and Shpingis, A. A. COMPARATIVE STUDY OF STEROID CONVERSIONS BY SOME SPECIES OF MOLDS OF THE IMPERFECT GROUP. [1962] 9p. Order from ATS \$12.25 ATS-55P64R</p> <p>Trans. of Akad[emiya] Nauk SSSR Izv[estiya]. Ser[iya] Biol[ogicheskaya] 1961, v. 26, no. 4, p. 574-581.</p> <p>DESCRIPTORS: *Steroids. Chemical reactions, *Molds.</p> <p>(Biological Sciences--Biochemistry, TT, v. 9, no. 2)</p>	<p>63-12302</p> <p>I. Timofeeva, A. G. II. Gusakova, E. G. III. Shpingis, A. A. IV. ATS-55P64R V. Associated Technical Services, Inc., East Orange, N. J.</p> <p>Office of Technical Services</p>
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Cerebral Pulsation in the Closed Cranial Cavity,
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RUSSIAN, per, Iz Ak Nauk SSSR, Seriya Biol, No 4,
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NASA TT F-158

Sci-Biol & Med Sci
Apr 63

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CYTOMORPHOLOGICAL REACTION OF AREOLAR CONNECTIVE
TISSUE TO LEUCOCYTE FACTORS, BY N. V. POPOVA,
A. N. SEVERTSOV, 16 PP.

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JUL/AUG 1961, PP 630-641.

JPRS 14903

SCI -MED

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S-842/61

Towards the Twenty Second Congress of the
CPSU, by N. M. Sisakyan, ((DC-6426)

RUSSIAN, per, Iz Ak Nauk SSSR-Ser Biol, No 5,
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NEW PRODUCTION PROCESSES TO BE DEVELOPED ON THE
BASIS OF THE LATEST ACHIEVEMENTS IN BIOCHEMISTRY,
BY A. I. OPARIN, 9 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, SER BIOL, NO 5,
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(DC-6426)

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Sensory Reactions and the State of Voluntary
Movements of Man Under Conditions of Weightless-
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I. I. Kas'yan, et al, 24 pp.

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RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biologicheskaya, No 6,
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Prospects of Fishery Development in Internal
Reservoirs of the Soviet Union, by B. I. Cherfas,
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USDA Tr A-1383

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JPRS 13567

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May 62

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Experimental Investigation of Wind Erosion of Sands,
by B. N. Senkevich, 11 p.
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No 1, 1962, pp 21-30.
CFSTI TT 65-5030

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(NY-7042)

THE EFFECT OF EXPLOSIVE DECOMPRESSION ON THE
ORGANISM, BY V. I. YAZDOVSKIY, A. R. MANSUROV,
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RUSSIAN, PER, X IZ AK NAUK SSSR," SER BIOLOG, NO 1,
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JPRS 13562

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(NY-7042)

ANIMAL TOLERANCE OF HIGH G FORCE ACTING ALONG
A LINE CLOSE TO THE LONGITUDINAL AXIS OF THE BODY, BY
YE. M. YUGANOV, I. I. KAS'YAN, 8 PP.

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JPRS 13562
AF 1491223

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ELECTRORETINOGRAM OF IRRADIATED EYE AND INDUCTION
OF THE CORNEA, BY V. V. POPOV, A. I. FARBEROV, 6 PP.

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<p>Melkumova, T. L. INFLUENCE OF ANTIBIOTICS ON THE ACTIVITY AND VIRULENCE OF NODULE BACTERIA OF ALFALFA. [1963] [10]p. 7 refs. FASEB manuscript no. S 361-2. Order from OTS or SLA \$1.10 63-19363 Trans. of Akademiya Nauk SSSR, Izvestiya, Seriya Biologicheskaya, 1962 [v. 27] no. 1, p. 117-121.</p> <p>DESCRIPTORS: *Antibiotics, Adaptation (Physiology), Viability, *Bacteria, *Grasses, Streptomycins, Aureomycin.</p> <p>Streptomycin in a concentration from 10 to 0.01 unit/ml has an inhibitory effect on the development of pure cultures of nodule bacteria. The addition of streptomycin in a concentration from 10 units to 0.0001 unit/ml to Kovrovtsyeva's medium inhibits the growth and de- (Biological Sciences--Microbiology, TT, v. 10, no. 6) (over)</p>	<p>63-19363</p> <p>I. Melkumova, T. L. II. FASEB S-361-2 III. Federation of American Societies for Experimental Biology, Washington, D. C. IV. Scripta Technica, Inc., Washington, D. C.</p> <p>Office of Technical Services</p>
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(NY-7042)

THE DISTRIBUTION OF CO⁶⁰ AND SOME RADIOISOTOPE FISSION PRODUCTS AMONG THE COMPONENTS OF EXPERIMENTAL BODIES OF WATER, BY I. O. BOGATYREV, 8 PP.

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JPRS 13562

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Applied Cytology, by A. S. Troshin, V. P. Paribok,
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RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol,
Vol XXVII, No 1, Feb 1962, pp 127-300.
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JPRS 13487

Sci - Biol
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CONGRESSES, CONFERENCES AND MEETING OF THE
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20 PP.

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Methods in Biology, by A. Ye. Vitgeft, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol,
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Sci - Biol
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Problems of Space Biology and Physiology,
by N. N. Sisakyan, V. V. Parin, 11 pp.

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JPS 16083

Sci - Biol

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Intensification of Photosynthetic Productivity of
the Unicellular Algae Culture, by A. A.
Michiporovich, V. E. Semenenko, et al.

RUSSIAN, per, In Ak Nauk SSSR, Ser Biol, No 2,
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Nitrogen Nutrition as a Factor in the
Ontogenesis of Annuals, by I. Volodarskii.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Seriya Biologicheskaya, No 1, 1962, pp 19-207
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Controlled Organogenesis and Regeneration
of a Whole Plant in a Culture of Non-
differentiated Plant Tissue, by R. G.
Butenko and Z. M. Yakovleva.

RUSSIAN, per, Investiya Akad Nauk SSSR,
Seriya Biologicheskaya, 1962, pp 230-241.
MLL RTS 2621 (On Loan or Purchase)

OTS TS-64-23530 286,976
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Shakhnazarov, G. M.
THE EFFECT OF IMPROVED NUTRITION IN THE
STIMULATION OF THE DEVELOPMENT PROCESS
IN EARLY RABBIT EMBRYOS. [1962] [32p. 22 refs.
FASEB manuscript no. S 161-2.
Order from OTS or SLA \$3.60 63-19003

Trans. of Akademiya Nauk SSSR. Izvestiya Seriya
Biologicheskaya, 1962 [v. 27] no. 4, p. 260-270.

DESCRIPTORS: *Nutrition, *Rabbits, *Embryos,
Stimulation, Growth, Morphology.

Female rabbits were fed diets high in protein and
vitamins to stimulate their metabolic processes in
order to alter early embryonic development. The de-
velopmental level of individual embryos was evaluated
numerically. The more differentiated portions
(Biological Sciences--Pathology, TT, v. 10, no. 6)
(over)

63-19003

- I. Shakhnazarov, G. M.
- II. FASEB S-161-2
- III. Federation of American
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mental Biology,
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- IV. Scripta Technica, Inc.,
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SCIENTIFIC ACHIEVEMENTS BY ESTABLISHMENTS OF THE
DEPARTMENT OF BIOLOGICAL SCIENCES (ACADEMY OF
SCIENCES USSR) AND THEIR INTRODUCTION INTO PRACTICE,
BY N. M. SISYAKAN, 20 PP.

RUSSIAN, PER, IZVESTIYA AK NAUK SSSR, NO 3, 1962,
PP 317-333. SER BIOL,

JPRS 18091

SCI - BIOL-MED SG
MAR 63

225,453

USE OF CONTINUOUS CULTURE METHOD FOR PHYSIOLOGICAL
INVESTIGATION OF CELLS OF MICROBES AND OTHER ORGANISMS,
BY N. D. JERUSALIMSKIY, 23 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, SER. BIOL, NO 3, 1962,
PP 418-429. 9678364 9666828

FTD-TT-62-1099

SCI - BIOL
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<p>Shakhidhanyan, L. G. and others. DISTRIBUTION OF RADIOACTIVE CAESIUM AND STRONTIUM IN HUMAN AND ANIMAL ORGANS. [1963] 7p. Order from OTS or SLA \$1.10 63-16454</p> <p>Partial trans. (tables only) of <u>Akademiya Nauk SSSR,</u> <u>Izvestiya, Seriya Biologicheskaya, 1962</u> [v. 27] no. 3, p. 442-446.</p> <p>DÉSCRIPTORS: *Labeled substances, Radioactivity, Animals, Man, *Cesium, *Strontium.</p> <p>(Biological Sciences--Radiobiology, TT, v. 19, no. 9)</p>	<p>63-16454</p> <p>1. Shakhidhanyan, L. G.</p> <p>Office of Technical Services</p>	
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SUCCESSION OF INSECTS AND OTHER VERTEBRATES IN
SPRUCE WOOD AND THEIR ROLE IN WINDFALL AND FELLING
LITTER DECAY, BY E. F. KOZARZHEVSKAYA, B. M.
MAMAYEV, 8 PP.

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PP 449-454.

JPRS 18091

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MOTOR ACTIVITY OF INTACT ANIMALS UNDER THE CONDITIONS
OF ARTIFICIAL GRAVITY, BY YE. M. YUGANOV, P. K.
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ANNUAL GENERAL MEETING OF THE DEPARTMENTS OF
BIOLOGICAL SCIENCES, ACADEMY OF SCIENCES USSR,
BY T. N. SHCHERBINOVSKAYA, 6 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, SER BIOL, NO 3,
1962, PP 473-476.

JPRS 18091

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On the Development Cycle of the Tick *Hyalomma
Anatolicum Anatolicum* Koch, by G. V. Serdyukova.
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1946, pp 199-202.
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Sci-B&M
Dec 67

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(S-656/62)

Information RNA and Regulatory Mechanisms of
Protein Synthesis in Bacteria, by A. S. Spirin,
V. N. Smirnov, (NY-7251) 3500.

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*JPRS 14893

Sci - Biol

24 Sept 62

Kulaev, I. S. and Belozerskii, A. N.
CONDENSED INORGANIC PHOSPHATES IN THE
METABOLISM OF LIVING ORGANISMS. PT. 2,
THE FORMATION OF CONDENSED INORGANIC
PHOSPHATES AND THEIR TRANSFORMATION IN
THE LIFE CYCLE OF ORGANISMS. [1963] [51p]
312refs FASEB Manuscript no.: S 203-2,
Order from OTS, SLA, or ETC \$5.60 TT-63-24481

Trans. of Akademiya Nauk SSSR, Izvestiya, Seriya
Biologicheskaya, 1962 [v. 27] no. 4, p. 502-522.
(Abstract available)

DESCRIPTORS: *Phosphates, *Metabolism, Energy,
Inorganic compounds, *Biosynthesis, Biochemistry,
Morphology,

The chemical structure and biological role of poly- and
metaphosphates are reviewed. The following are
(Biological Sciences--Physiology, TT, v. 11, no. 5)
(over)

TT-63-24481

- I. Kulaev, I. S.
- II. Belozerskii, A. N.
- III. Title: Formation ...
- IV. FASEB-S-203-2
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Washington, D. C.

Office of Technical Services

<p>Alikhanyan, S. I. INDUCED MUTAGENESIS IN THE SELECTION OF MICROORGANISMS. [1963] [48]p. 51 refs. PASEB manuscript no. S 204-2 Order from OTS or SLA \$4.60 63-23045 Trans. of Akademiya Nauk SSSR, Izvestiya Seriya Biologicheskaya, 1962 [v. 27] no. 4, p. 544-575. DESCRIPTORS: *Mutations, *Genetics, Micro-organisms, Antibiotics, *X-rays, *Ultraviolet radiation.</p> <p>(Biological Sciences, TT, v. 10, no. 8)</p>	<p>63-23045</p> <p>I. Alikhanyan, S. I. II. PASEB S-204-2 III. Federation of American Societies for Experimental Biology, Washington, D. C. IV. Scripta Technica, Inc., Washington, D. C.</p> <p>Office of Technical Services</p>	
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<p>Krasil'nikov, N. A. GENERAL PRINCIPLES IN CLASSIFYING ANTIMICROBIAL PRODUCING ACTINOMYCETES. [1963] [38]p. 23 refs. FASEB manuscript no. S 205-2. Order from OTS or SLA \$3.60 63-19381 Trans. of Akademiya Nauk SSSR, Izvestiya Seriya Biologicheskaya, 1962 [v. 27] no. 4, p. 576-591. DESCRIPTORS: Classification, *Antibiotics, Taxonomy, *Actinomyces, Spores, Culture media, *Biological assay, Growth, Biological stains. (Biological Sciences--Microbiology, TF, v. 10, no. 2)</p>	<p>63-19381</p> <p>I. Krasil'nikov, N. A. II. FASEB S-205-2 III. Federation of American Societies for Experimental Biology, Washington, D. C. IV. Scripta Technica, Inc., Washington, D. C.</p> <p>Office of Technical Services</p>
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The Experience of Physiological Analysis of the
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Conditioned Reflex Regulation, by V. I.
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Primary Production of the Kuibyshev Reservoir,
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Study of Changes of Bioelectric Activity of the
Cerebral Cortex During the Action of Protracted
Transverse Overloads on the Organism, by
G. V. Izosimov, A. N. Razumeyev, (NY-7251) 10800.

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MEETING CONCERNING THE BIOLOGICAL ASPECTS OF
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JPRS 16631

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FIGHTING HARMFUL INSECTS, BY A. B. GUKASYAN,
5 PP.

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Nucleic Acids and Evolution in Algae, by
G. P. Serenkov, 18 pp.

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EXTRATERRESTRIAL LIFE, BY A. I. OPARIN, 7 PP.

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EXPERIMENTAL STUDIES IN SPACE PHYSIOLOGY.
[1963] [25p] 12refs FASEB manuscript no. S 508-3,
Order from OTS, SLA, or ETC \$2.60 TT-64-13441

Trans. of Akademiya Nauk SSSR, Izvestiya Seriya
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Another trans. is available from OTS \$2.25 in
TT-63-21723, JPRS-18985, 30 Apr 63, 96p and
an unedited rough draft trans. from OTS or SLA
\$1.60 as TT-63-24140, FTD-TT-63-719, 16 Jul 63
[15p], NASA TT-F-186, OTS TT-63-11706,
NLL Ref: 1831.9 1963 (186) LOAN

DESCRIPTORS: *Space medicine, *Space biology,
Space flight, Physiology, Acceleration.

(Biological Sciences--Physiology, TT, v. 11, no. 9)

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- II. Voskresenskii, A. D.
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REACTIONS OF THE CARDIOVASCULAR AND RESPIRATORY SYSTEMS
OF ANIMALS DURING FLIGHTS IN HERMETIC CABINS OF
ROCKETS UP TO AN ALTITUDE OF 212 KM, BY I. I.
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Saidrasulov, S. S.

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Descriptors: *Wounds and injuries, *Regeneration, Therapy, *Nucleic acids, *Vitamins, *Heart.

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TT-64-13860

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Dynamics of Chlorophyll and the Intensity of Its
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SOME PHYSIOLOGICAL REACTIONS OF ANIMALS DURING
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UP TO HEIGHTS OF 450-473 KM, BY I. I. KAS'YAN,
17 PP.

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